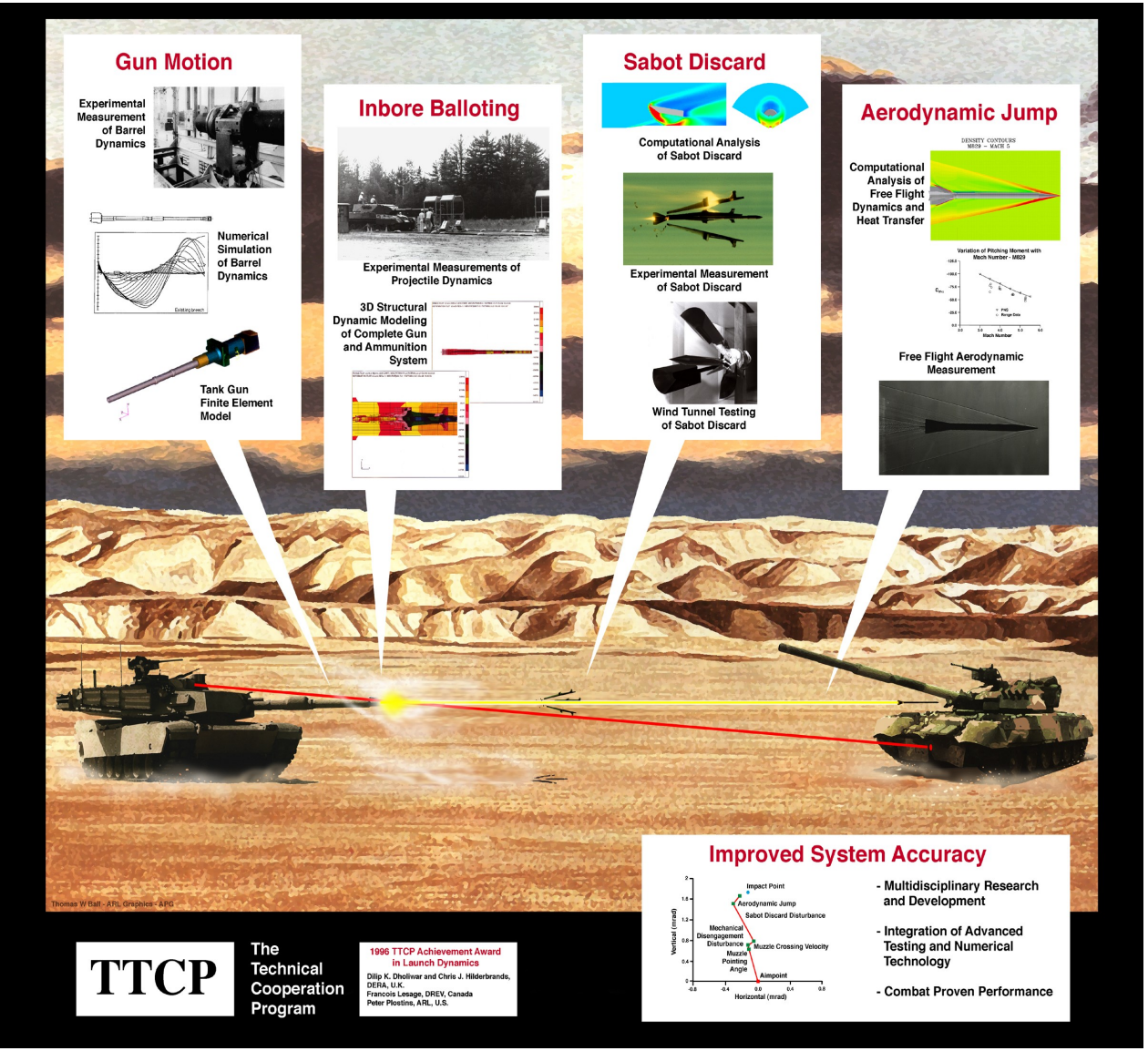
Precision Fire Technology
WPN Group


Gun Motion
Experimental Measurement of Barrel Dynamics
Numerical Simulation of Barrel Dynamics
Tank Gun Finite Element Model
Inbore Balloting
Experimental Measurements of Projectile Dynamics
3D Structural Dynamic Modeling of Complete Gun and Ammunition System
Sabot Discard
Computational Analysis of Sabot Discard
Experimental Measurement of Sabot Discard
Wind Tunnel Testing of Sabot Discard
Aerodynamic Jump
Computational Analysis of Free Flight Dynamics and Heat Transfer
Free Flight Aerodynamic Measurement
Improved System Accuracy
Impact Point
Aerodynamic Jump
Sabot Discard Disturbance
Mechanical Disengagement Disturbance
Muzzle Crossing Velocity
Muzzle Pointing Angle
Aimpoint
Vertical (mrad)
Horizontal (mrad)
- Multidisciplinary Research and Development
- Integration of Advanced Testing and Numerical Technology
- Combat Proven Performance
TTCP
The Technical Cooperation Program
1996 TTCP Achievement Award in Launch Dynamics
Dilip K. Dholiwar and Chris J. Hilderbrands, DERA, U.K.
Francois Lesage, DREV, Canada
Peter Plostins, ARL, U.S.

Program Name:
Precision Fire Technology

Objective: Develop technology to compute and measure direct fire accuracy of main battle tanks

Payoff: Improved design and experimental methodology for all direct fire systems

Participants:

Future Activities:
Efforts already transitioned to KTA 2-15, 2-16 and 2-17 to develop control for smart munitions

http://www.dtic.mil/